



■ Features :

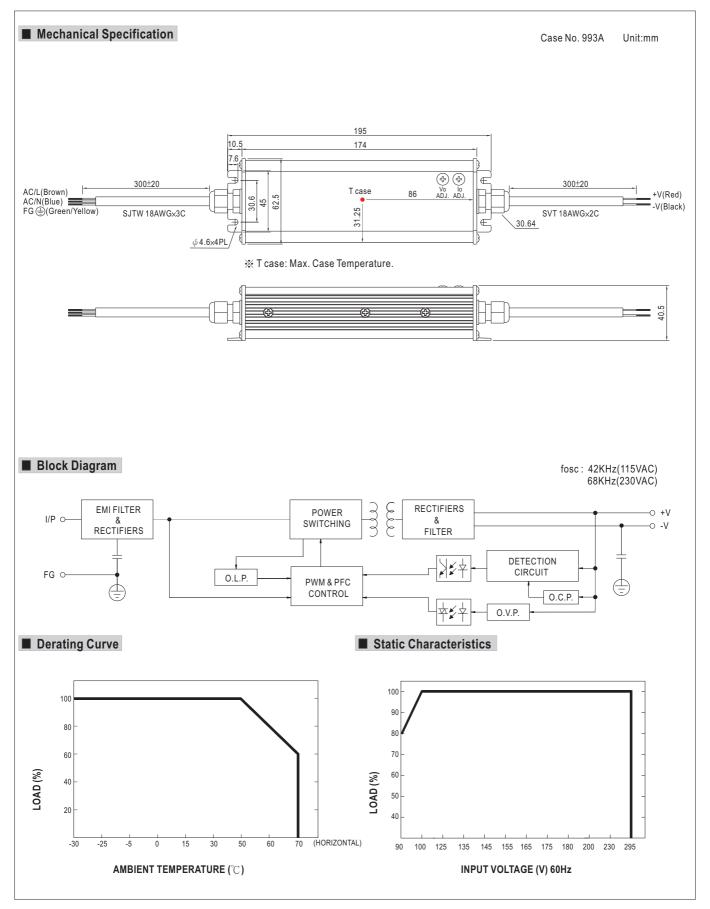
- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · Output voltage and constant current level adjustable
- · Built-in active PFC function
- IP66 design for indoor or outdoor installations
- · Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications
- · Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty

SPECIFICATION		SELV IP66 P 71	(for 48V,54V only) c 	A CBCE
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MODEL		CEN-100-20	CEN-100-24	CEN-100-30	CEN-100-36	CEN-100-42	CEN-100-48	CEN-100-54			
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V			
ОИТРИТ	CONSTANT CURRENT OPERATION VOLTAGE Note.5	13 ~ 20V	15.6 ~ 24V	19.5 ~ 30V	23.4 ~ 36V	27.3 ~ 42V	31.2 ~ 48V	35.1 ~ 54V			
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A			
	CURRENT RANGE	0 ~ 4.8A	0 ~ 4A	0 ~ 3.2A	0 ~ 2.65A	0 ~ 2.28A	0 ~ 2A	0 ~ 1.77A			
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W			
	RIPPLE & NOISE (max.) Note.2	2.0Vp-p	2.7Vp-p	3Vp-p	3.6Vp-p	4Vp-p	4.6Vp-p	5Vp-p			
	VOLTAGE ADJ. RANGE (SVR1)	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	37 ~ 46V	43 ~ 53V	49 ~ 58V			
	CURRENT ADJ. RANGE(SVR2)	3.12 ~ 4.8A	2.6 ~ 4A	2.08 ~ 3.2A	1.72 ~ 2.65A	1.48 ~ 2.28A	1.3 ~ 2A	1.15 ~ 1.77A			
	VOLTAGE TOLERANCE Note.3	±10%									
	LINE REGULATION	±3.0%									
	LOAD REGULATION	±5.0%									
	SETUP TIME	3000ms / 230VAC 5000ms / 115VAC at full load									
INPUT	VOLTAGE RANGE Note.4	90 ~ 295VAC 127 ~ 417VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	EFFICIENCY (Typ.)	88%	89%	90%	90%	90%	91%	91%			
	AC CURRENT (Typ.)	1.4A/115VAC	0.7A/230VAC	0.5A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=85 \(\mu \)s measured at 50% peak) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/240VAC									
PROTECTION	OVER CURRENT	95 ~ 110%									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	22.8 ~ 26V	28 ~ 32V	34 ~ 38V	41 ~ 46V	47 ~ 52V	54 ~ 60V	59 ~ 65V			
		Protection type: Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	100°C ±10°C (RTH1)									
		Protection type: Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0~50℃)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & -	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), TUV EN61347-1, EN61347-2-13, IP66, J61347-1, J61347-2-13 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥65% load); EN61000-3-3									
	EMC IMMUNITY	Compliance to E	N61000-4-2,3,4,5	,6,8,11, EN55024,	EN61547, light in	dustry level (surge	4KV), criteria B				
OTHERS	MTBF	519.5K hrs min.	MIL-HDBK-217	'F (25°C)	-						
	DIMENSION	195*62.5*40.5mm (L*W*H)									
	PACKING	0.6Kg; 24pcs/15.4Kg/1.11CUFT									
NOTE	All parameters NOT specia Ripple & noise are measure	lily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation.									

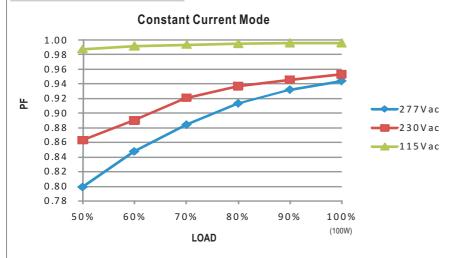
- Tolerance: includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltage. Please check the static characteristics for more details.
 Constant current operation region is within 65% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.





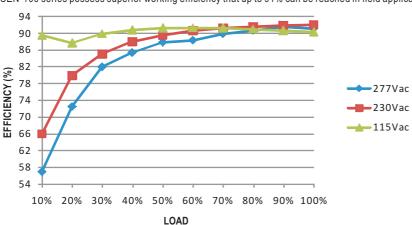


■ Power Factor Characteristic



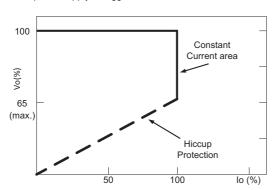
■ EFFICIENCY vs LOAD (48V Model)

CEN-100 series possess superior working efficiency that up to 91% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve